P TENT COOPERATION TREA '

From the INTERNATIONAL SEARCHING AUTHORITY

То:				PCT			
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	see form	PCT/ISA/220		WRITTEN OPINION OF THE			
				INTERNATIONAL SEARCHING AUTHORITY			
				(F	PCT Rule 43 <i>bis</i> .1)		
·				Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)		
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below			
Inte	mational application	No.	International filing date (o	lav/month/year)	Priority date (day/month/year)		
PC	PCT/US2004/023917		22.07.2004		13.08.2003		
International Patent Classification (IPC) or both national classification and IPC C07C19/08, C07C19/10, C07C21/18							
App	licant						
	BU SERVICES,	INC.					
1.	This opinion contains indications relating to the following items:						
	☑ Box No. I	Basis of the op	Inion				
	□ Box No. II	Priority	· -				
	☐ Box No. III	Non-establishn	nent of opinion with rega	rd to novelty, inventive	e step and industrial applicability		
	☐ Box No. IV	Lack of unity of	finvention				
	☑ Box No. V	Reasoned state applicability; clt	ement under Rule 43 <i>bis.</i> ations and explanations	1(a)(i) with regard to r supporting such state	novelty, inventive step or industrial		
	☐ Box No. VI	Certain docume		-,,			
	Box No. VII	Certain defects	in the international appli	ication			
	☐ Box No. VIII		ations on the internations				
2.	FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will usually be considered to written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not ago the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified international Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.					owever, this does not apply where		
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further option	s, see Form PC	T/ISA/220.				
3.	For further details, see notes to Form PCT/ISA/220.						
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Name and mailing address of the ISA:



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/023917

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_	Bo	x No. I	Basis of the opinion			
1.	Wit	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
		This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	Wit	ith regard to any nucleotide and/or amino acid sequence disclosed in the international application and accessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:					
	ı	□ as	equence listing			
	ı	□ tab	le(s) related to the sequence listing			
	b. fe	o. format of material:				
	ſ	□ in v	vritten format			
	ſ	⊐ in c	computer readable form			
	c. time of filing/furnishing:					
	(□ <u>c</u> on	stained in the international application as filed.			
	C	J filed	d together with the international application in computer readable form.			
	[□ furr	sished subsequently to this Authority for the purposes of search.			
3.		copies	tion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as riate, were furnished.			
4.	Add	Additional comments:				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/023917

Box No. V Reasoned statement under Rule 43bis.1(a)(I) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-83

Inventive step (IS)

Yes: Claims

No: Claims

Claims

1-83

Industrial applicability (IA)

Yes: Claims

No:

1-83

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/023917

D1: WO 03/029173 A (PCBU SERVICES INC) 10 April 2003 (2003-04-10)

D2: EP-A-0 434 409 (DU PONT) 26 June 1991 (1991-06-26)

D3: EP-A-0 253 410 (AUSIMONT SPA) 20 January 1988 (1988-01-20)

D4: US-B1-6 291 729 (RAO V N MALLIKARJUNA) 18 September 2001 (2001-09-18)

Section V.

- The claims lack novelty as detailed in the search report or are considered to relate to subject-matter which is trivial in view of the novelty destroying embodiments of the prior art.
- 2). Where conditions presently claimed include reaction conditions of the prior art, but the co-formation of particular products, e.g. olefins is not specifically mentioned in the prior art, the burden of proof is considered to lie with the applicant that such products are not also formed in the prior art.
- 3). Reactions presently claimed catalysed by a mixture of Cu and Pd have been performed in the prior art: see the 6th to 8th entries on p.39 of D1 and p.9, lines 31-35 of D2. Claims relating to such reactions are therefore not novel.
- Inter alia run no.1 in column 3 of D4 relates to a presently claimed reaction catalysed by Pd and conducted in a Nickel tube. This is considered novelty destroying for the Pd/Ni catalysed embodiment of present claim 7.
- 5). Present reactions catalysed by a combination of Cu and Pd are suggested by D1 inter alia as detailed above, p.9, lines 31-35 of D2 and claim 1 of D3. Insofar as particular ratios of these elements are to be used as a catalyst, it is not apparent how this is inventive.
- Combinations of Ni and Pd as catalyst in the present type of reactions are suggested by claim 1 of D3. It is not apparent how these are presently inventive.